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Sequence Listing was accepted.

If you need help call the Patent Electronic Business Center at (866) 217-9197 (toll free).

Reviewer: Anne Corrigan

Timestamp: [year=2009; month=10; day=28; hr=10; min=15; sec=51; ms=7;]

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Application No: 10587032 Version No: 1.1

Input Set:

Output Set:

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Finished: 2009-10-28 10:09:18.944
Elapsed: 0 hr(s) 0 min(s) 8 sec(s) 389 ms
Total Warnings: 83
Total Errors: 0
No. of SeqIDs Defined: 83
Actual SeqID Count: 83

Error code	Error Description
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Input Set:

Output Set:

Started: 2009-10-28 10:09:10.555
Finished: 2009-10-28 10:09:18.944
Elapsed: 0 hr(s) 0 min(s) 8 sec(s) 389 ms
Total Warnings: 83
Total Errors: 0
No. of SeqIDs Defined: 83
Actual SeqID Count: 83

Error code	Error Description
	This error has occurred more than 20 times, will not be displayed
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W 213	Artificial or Unknown found in <213> in SEQ ID (53)
W 213	Artificial or Unknown found in <213> in SEQ ID (54)
W 213	Artificial or Unknown found in <213> in SEQ ID (55)
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W 213	Artificial or Unknown found in <213> in SEQ ID (60)
W 213	Artificial or Unknown found in <213> in SEQ ID (62)
W 213	Artificial or Unknown found in <213> in SEQ ID (64)
W 213	Artificial or Unknown found in <213> in SEQ ID (66)
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W 213	Artificial or Unknown found in <213> in SEQ ID (74)
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	This error has occurred more than 20 times, will not be displayed

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<110> CHIRON CORPORATION
HARDY, Stephen F
DONNELLY, III, John J
ZUR MEGEDE, Jan T

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<140> 10587032
<141> 2009-10-13

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<151> 2003-06-13

<150> 60/388831
<151> 2002-06-16

<150> 60/472189
<151> 2003-05-20

<160> 83

<170> PatentIn, version 3.5

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<213> Human endogenous retrovirus, K family (HERV-K)

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<210> 2
 <211> 2001
 <212> DNA
 <213> Human endogenous retrovirus, K family (HERV-K)

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 <213> Human endogenous retrovirus, K family (HERV-K)

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<212> DNA

<213> Human endogenous retrovirus, K family (HERV-K)

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aaaagaattg gtaaggaact aaaacaagca ggtaggaagg gtaatatcat tccacttaca 240
gtatggaatg attggccat tattaaagca gctttagaac catttcaaac agaagaagat 300
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<213> Human endogenous retrovirus, K family (HERV-K)

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Phe Pro Glu Gln Gly Thr Leu Asp Leu Lys Asp Trp Lys Arg Ile Gly
50 55 60

Lys Glu Leu Lys Gln Ala Gly Arg Lys Gly Asn Ile Ile Pro Leu Thr
65 70 75 80

Val Trp Asn Asp Trp Ala Ile Ile Lys Ala Ala Leu Glu Pro Phe Gln
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Thr Glu Glu Asp Ser Val Ser Val Asp Ala Pro Gly Ser Cys Ile
100 105 110

Ile Asp Cys Asn Glu Asn Thr Arg Lys Lys Ser Gln Lys Glu Thr Glu
115 120 125

Gly Leu His Cys Glu Tyr Val Ala Glu Pro Val Met Ala Gln Ser Thr
130 135 140

Gln Asn Val Asp Tyr Asn Gln Leu Gln Glu Val Ile Tyr Pro Glu Thr
145 150 155 160

Leu Lys Leu Glu Gly Lys Gly Pro Glu Leu Val Gly Pro Ser Glu Ser
165 170 175

Lys Pro Arg Gly Thr Ser Pro Leu Pro Ala Gly Gln Val Pro Val Thr
180 185 190

Leu Gln Pro Gln Lys Gln Val Lys Glu Asn Lys Thr Gln Pro Pro Val
195 200 205

Ala Tyr Gln Tyr Trp Pro Pro Ala Glu Leu Gln Tyr Arg Pro Pro Pro
210 215 220

Glu Ser Gln Tyr Gly Tyr Pro Gly Met Pro Pro Ala Pro Gln Gly Arg
225 230 235 240

Ala Pro Tyr Pro Gln Pro Pro Thr Arg Arg Leu Asn Pro Thr Ala Pro
245 250 255

Pro Ser Arg Gln Gly Ser Lys Leu His Glu Ile Ile Asp Lys Ser Arg
260 265 270

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275 280 285

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290 295 300

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305 310 315 320

Gly Val Lys Gln Tyr Gly Pro Asn Ser Pro Tyr Met Arg Thr Leu Leu
325 330 335

Asp Ser Ile Ala His His Arg Leu Ile Pro Tyr Asp Trp Glu Ile
340 345 350

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355 360 365

Trp Trp Ile Asp Gly Val Gln Glu Gln Val Arg Arg Asn Arg Ala Ala
370 375 380

Asn Pro Pro Val Asn Ile Asp Ala Asp Gln Leu Leu Gly Ile Gly Gln
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Glu Pro Tyr Pro Asp Phe Val Ala Arg Leu Gln Asp Val Ala Gln Lys
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Ser Ile Ala Asp Glu Lys Ala Arg Lys Val Ile Val Glu Leu Met Ala
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Tyr Glu Asn Ala Asn Pro Glu Cys Gln Ser Ala Ile Lys Pro Leu Lys
485 490 495

Gly Lys Val Pro Ala Gly Ser Asp Val Ile Ser Glu Tyr Val Lys Ala
500 505 510

Cys Asp Gly Ile Gly Gly Ala Met Tyr Lys Ala Met Leu Met Ala Gln
515 520 525

Ala Ile Thr Gly Val Val Leu Gly Gly Gln Val Arg Thr Phe Gly Arg
530 535 540

Lys Cys Tyr Asn Cys Gly Gln Ile Gly His Leu Lys Lys Asn Cys Pro
545 550 555 560

Val Leu Asn Lys Gln Asn Ile Thr Ile Gln Ala Thr Thr Thr Gly Arg
565 570 575

Glu Pro Pro Asp Leu Cys Pro Arg Cys Lys Lys Gly Lys His Trp Ala
580 585 590

Ser Gln Cys Arg Ser Lys Phe Asp Lys Asn Gly Gln Pro Leu Ser Gly
595 600 605

Asn Glu Gln Arg Gly Gln Pro Gln Ala Pro Gln Gln Thr Gly Ala Phe
610 615 620

Pro Ile Gln Pro Phe Val Pro Gln Gly Phe Gln Gly Gln Gln Pro Pro
625 630 635 640

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<212> PRT

<213> Human endogenous retrovirus, K family (HERV-K)

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35 40 45

Phe Pro Glu Gln Gly Thr Leu Asp Leu Lys Asp Trp Lys Arg Ile Gly
50 55 60

Glu Glu Leu Lys Gln Ala Gly Arg Lys Gly Asn Ile Ile Pro Leu Thr
65 70 75 80

Val Trp Asn Asp Trp Ala Ile Ile Lys Ala Ala Leu Glu Pro Phe Gln
85 90 95

Thr Lys Glu Asp Ser Val Ser Val Asp Ala Pro Gly Ser Cys Val
100 105 110

Ile Asp Cys Asn Glu Lys Thr Gly Arg Lys Ser Gln Lys Glu Thr Glu
115 120 125

Ser Leu His Cys Glu Tyr Val Thr Glu Pro Val Met Ala Gln Ser Thr
130 135 140

Gln Asn Val Asp Tyr Asn Gln Leu Gln Gly Val Ile Tyr Pro Glu Thr
145 150 155 160

Leu Lys Leu Glu Gly Lys Gly Pro Glu Leu Val Gly Pro Ser Glu Ser
165 170 175

Lys Pro Arg Gly Pro Ser Pro Leu Pro Ala Gly Gln Val Pro Val Thr
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Leu Gln Pro Gln Thr Gln Val Lys Glu Asn Lys Thr Gln Pro Pro Val
195 200 205

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Glu Ser Gln Tyr Gly Tyr Pro Gly Met Pro Pro Ala Leu Gln Gly Arg
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Ala Pro Tyr Pro Gln Pro Pro Thr Val Arg Leu Asn Pro Thr Ala Ser
245 250 255

Arg Ser Gly Gln Gly Gly Thr Leu His Ala Val Ile Asp Glu Ala Arg
260 265 270

Lys Gln Gly Asp Leu Glu Ala Trp Arg Phe Leu Val Ile Leu Gln Leu
275 280 285

Val Gln Ala Gly Glu Glu Thr Gln Val Gly Ala Pro Ala Arg Ala Glu
290 295 300

Thr Arg Cys Glu Pro Phe Thr Met Lys Met Leu